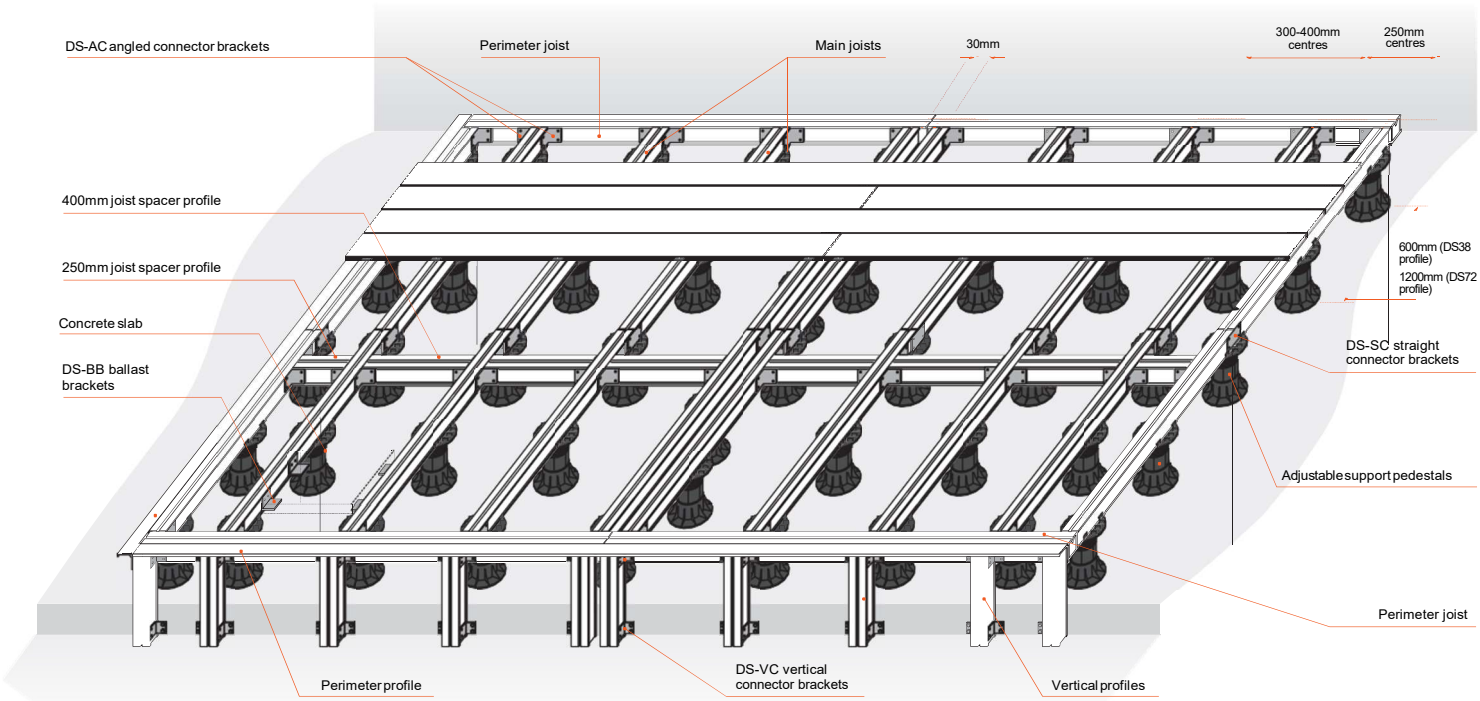
ALUMINIUM SUBSTRUCTURE INSTALLATION GUIDE

*Diagram for illustration purposes only



1 Lay main joists perpendicular to direction decking is to be laid, spaced at:
- First and last joist spaces = 250mm centres
- General joist spacing = 300mm - 400mm centres (as specified by decking manufacturer)
- At boards joins = 30mm gap between joists

2 Connect main joist lengths together end-on-end using DS-SC straight connector brackets and DS-SSJS 13mm screws provided
- Leave a 4mm expansion gap between all joist profiles

3 Lay perimeter joists perpendicular to the main joists at the ends, and connect lengths together using DS-SC straight connector brackets and DS-SSJS 13mm screws provided.
- Leave a 4mm expansion gap between all perimeter joists

4 Connect main joists to perimeter joists using DS-AC angled connector brackets and DS-SSJS 13mm screws provided, ensuring correct spacing between main joists is maintained.

5 Insert 250mm joist spacer profile and 400mm joist spacer profiles as required, to ensure joist spacing is adequately braced. Connect to the main joists using DS-AC angled connector brackets and DS-SSJS 13mm screws provided.

6 Set the substructure onto the adjustable support pedestals. Adjust the pedestals to level up the substructure.
- Pedestals must be spaced as follows:
  For DS38 substructure: 600mm pedestal spacing For DS72 substructure: 1200mm pedestal spacing
- All joins in the main joists must be supported by a cradle
- Fix the substructure to the pedestal heads using DS-SSDS 19mm screws provided

7 Connect perimeter profile to outside of the perimeter joists where required, using DS-SSJS 13mm screws provided. Perimeter profile is required where:
- The deck cannot extend beyond the edge of the substructure sufficiently to cover the cradles
- A connection is needed for downturns, upturns, or steps in the decking (See step 8)

8 If downturns are required, cut vertical profiles to required length, and connect to perimeter profile using DS-VC vertical connector brackets and DS-SSJS 13mm screws provided.

9 Connect the lower end of the vertical profiles into the wall, or securely placed concrete blocks/padstones, using DS-VC vertical connector brackets and DS-SSJS 13mm screws provided.
- To create upturns in the deck substructure, connect the perimeter profile the other way up, and follow step 8
- To create steps in the deck area, line up the differing level deck areas, then create a downturn from the higher level deck and connect onto the lower level deck by using the perimeter profile upside down.

10 If wind-load resistance is required, install DS-BB ballast brackets to substructure using DS-SSJS 13mm screws provided, and hang suitable concrete slab as shown

11 Install decking in accordance with decking manufacturer's guidance, using Arbodeck DS-SSDS decking screw to fix the decking to the substructure.

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